

A B S T R A C T

The present invention relates to a novel fluorine-containing cyclic compound that is derived from a norbornadiene and hexafluoroacetone and has an oxacyclopentane or oxacyclobutane structure. This compound may be represented by the following formula (1) or (2). Furthermore, the present invention relates to a fluorine-containing high-molecular compound prepared by a polymerization or copolymerization using this fluorine-containing cyclic compound or its derivative. By using such fluorine-containing high-molecular compound, it is possible to provide a superior resist material and a fine pattern forming process using the same.

